

FCC/ISED - TEST REPORT

Report Number	:	64.790.22.04877.0	01-R2	Date of Issue:	2023-03-03	
Model	:	EU-SK109, EU-O	SK109, US	6-SK109, US-O	SK109	
Product Type	:	Smart Kit				
Applicant	:	GD Midea Air-Cor	nditioning E	quipment Co.,	Ltd.	
Address	:	Lingang Road, Be	Lingang Road, Beijiao, Shunde 528311 Foshan, Guangdong, China			
Manufacturer		GD Midea Air-Cor	GD Midea Air-Conditioning Equipment Co., Ltd.			
Address	:	Lingang Road, Be	ijiao, Shun	de 528311 Fos	han, Guangdong, China	
Test Result	:	Positive	□ Negati	ve		
Total pages including Appendices	: _	62				

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, 518052 China
FCC Designation Number:	CN5009
FCC Registration No.:	514049
IC Registration Number:	10320A
Telephone: Fax:	86 755 8828 6998 86 755 8828 5299



3 Description of the Equipment under Test

Product:	Smart Kit
PMN:	Smart Kit
Model no.:	EU-SK109, EU-OSK109, US-SK109, US-OSK109
HVIN:	EU-SK109, EU-OSK109, US-SK109, US-OSK109
FVIN:	N/A
FCC ID:	2ADQOMDNA23
IC:	12575A-MDNA23
Rating:	5VDC (by USB port)
RF Transmission Frequency:	2412MHz-2462MHz
No. of Operated Channel:	11
Modulation:	802.11b: CCK, DSSS 802.11g/802.11n20: BPSK, QPSK, 16-QAM, 64-QAM
Antenna Type:	PCB onboard antenna
Antenna Gain:	2.7dBi max
Description of the EUT:	The product is a smart kit with WIFI and BLE functions, which can only be used for the control function of home appliances of Midea Group. It cannot be connected to a computer for any other functions.

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

NOTE 2:

EU-SK109, EU-OSK109, US-SK109, US-OSK109 are identical except model name. Unless otherwise specified, the model EU-SK109 was chosen as representative sample to perform fully testing, other models are deemed to fulfil relevant requirements without further testing.



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C 10-1-2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5, April 2018 Amendment 1, March 2019 + Amendment 2, February 2021	General Requirements and Information for the Certification of Radio Apparatus
RSS-247 Issue 2 February 2017	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices

All the test methods were according to KDB558074 D01 v05r02 DTS Measurement Guidance and ANSI C63.10 (2013).



5 Summary of Test Results

Technical Requirements					
RSS-247 Issue 2, Feb	C 10-1-2021 Edition /	2, February 202	1		
Test Condition		Test Result	Test Site		
§15.207 RSS-GEN 8.8	Conducted emission AC power port	Pass	Site 1		
§15.247 (b) (3) & RSS-247 5.4(d)	Conducted output power	Pass	Site 1		
RSS-247 5.4(d)	Equivalent Isotropic Radiated Power	Pass	Site 1		
§15.247(e) RSS-247 5.2(b)	Power spectral density	Pass	Site 1		
§15.247(a)(2) RSS-247 5.2(a) & RSS-GEN 6.7	6dB bandwidth	Pass	Site 1		
§15.247(a)(1) RSS-247 5.1(b)	20dB Occupied bandwidth	N/A			
RSS-GEN 6.7	99% Occupied Bandwidth	Pass	Site 1		
§15.247(a)(1) RSS-247 5.1(b)	Carrier frequency separation	N/A			
§15.247(a)(1)(iii) RSS-247 5.1(d)	Number of hopping frequencies	N/A			
§15.247(a)(1)(iii) RSS-247 5.1(d)	Dwell Time	N/A			
§15.247(d) RSS-247 5.5	Spurious RF conducted emissions	Pass	Site 1		
§15.247(d) RSS-247 5.5	Band edge	Pass	Site 1		
§15.247(d) & §15.209 & §15.205 RSS-247 5.5 & RSS- Gen 6.13	Spurious radiated emissions for transmitter	Pass	Site 1		
§15.203 RSS-Gen 6.8	Antenna requirement	Pass See note 1			

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a PCB onboard antenna, which gain is 2.7dBi. In accordance to §15.203 and RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.



6 General Remarks Remarks

This submittal(s) (test report) is intended for FCC ID: 2ADQOMDNA23, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15 Subpart C 10-1-2021 Edition.

This submittal(s) (test report) is intended for IC: 12575A-MDNA23, complies with RSS-247 Issue 2, February 2017 and RSS-Gen Issue 5, Amendment 2, February 2021.

This report is only for the WIFI function.

SUMMARY:

All tests according to the regulations cited on page 6 were

- Performed
- □ Not Performed

The Equipment under Test

- - **Fulfills** the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date: 2022-11-30

Testing Start Date: 2022-12-12

- Testing End Date: 2023-02-27
- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Jessie He Project Manager

Prepared by:

Tested by:

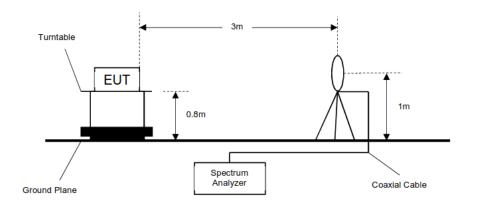
Myron Yu Project Engineer

Carry Cai Test Engineer

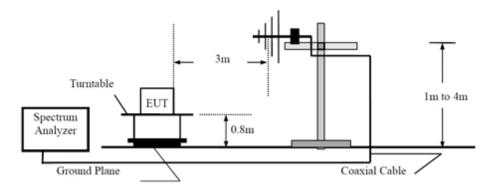
7 Test Setups

7.1 Radiated test setups

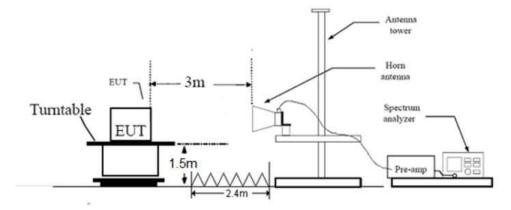
9kHz - 30MHz



Below 1GHz



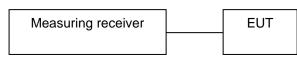
Above 1GHz



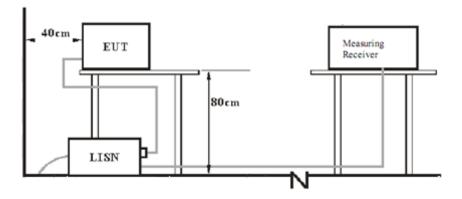
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7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
MOBILE PHONE	APPLE	IPHONE 6	
APP	MIDEA	MSMARTHOME	
MAINBOARD	MIDEA	/	
LAPTOP	LENOVO	X240	L34015282
SOFTWARE	REALTEK	AmebaZ2_mptool_ 1V3	

The system was configured to channel 1, 6, and 11 for the test.

Test Software Information:

Test Software Version	AmebaZ2_mptool_1V3		
Mode	Setting TX Power	Packet Type	
802.11b	TX Power Index: 75	11b LONG 1 Mbps	
802.11g	TX Power Index: 94	11g 6 Mbps	
802.11n HT20	TX Power Index: 90	MCS0 6.5 Mbps	

9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. Both sides of AC line were checked for maximum conducted interference.
- 6. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

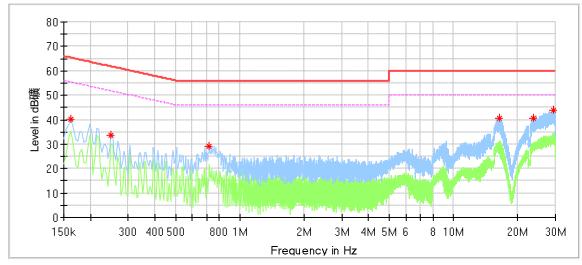
Frequency MHz	QP Limit dBuV	AV Limit dBuV
	uoha	υσμν
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency



Conducted Emission





Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162000	40.06		65.36	25.30	L1	9.58
0.250000	33.54		61.76	28.22	L1	9.60
0.718000	28.94		56.00	27.06	L1	9.64
16.470000	40.79		60.00	19.21	L1	9.98
23.690000	40.44		60.00	19.56	L1	10.08
29.518000	43.85		60.00	16.15	L1	10.02

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

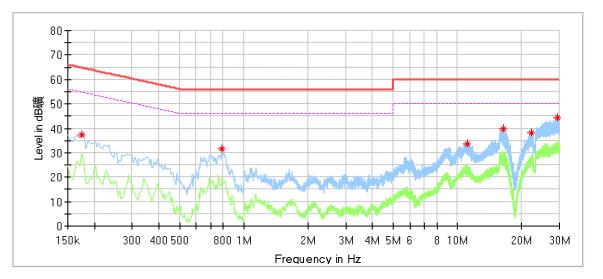
(The Reading Level is recorded by software which is not shown in the sheet)



Conducted Emission

Product Type:Smart KitM/N:US-SK109Operating Condition:WIFI transmostTest Specification:Power LineComment:AC 120V/6

- WIFI transmission
- Power Line, NeutralAC 120V/60Hz (Midea-mainboard)



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Line	Corr.
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dB)		(dB)
0.174000	37.36		64.77	27.41	Ν	9.58
0.790000	31.42		56.00	24.58	Ν	9.64
11.090000	33.82		60.00	26.18	Ν	9.93
16.370000	39.84		60.00	20.16	Ν	9.99
22.234000	38.24		60.00	21.76	Ν	10.11
29.394000	44.27		60.00	15.73	Ν	10.06

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



9.2 Conducted output power

Test Method

- 1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the power meter by RF cable. The path loss was compensated to the results for each measurement.
- 2. Setting the highest output power level of the EUT
- 3. Record the power value.

Limits

According to §15.247 (b) (3) & RSS-247 5.4(d), conducted output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

According to & RSS-247 5.4(d), EIRP limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤4	≤36.2

Test result as below table

Test Mode	Channel (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Result
	2412	13.5	2.7	16.2	Pass
11B	2437	13.5	2.7	16.2	Pass
	2462	14.0	2.7	16.7	Pass
	2412	16.1	2.7	18.8	Pass
11G	2437	16.1	2.7	18.8	Pass
	2462	16.3	2.7	19.0	Pass
11N20SISO	2412	15.0	2.7	17.7	Pass
	2437	15.6	2.7	18.3	Pass
	2462	15.3	2.7	18.0	Pass

9.3 6dB bandwidth

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings: RBW=100KHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
- 5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Limit

Limit [kHz]

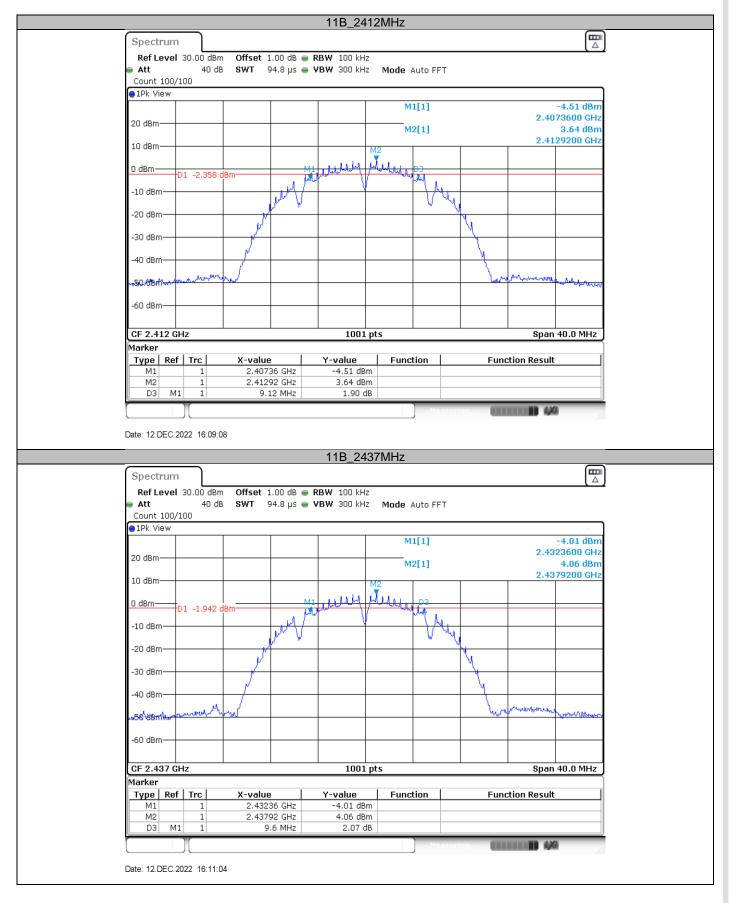
≥500

Test result

Test Mode	Channel (MHz)	Result (MHz)	Limit (kHz)	Verdict
	2412	9.12	≥500	PASS
11B	2437	9.60	≥500	PASS
	2462	9.16	≥500	PASS
	2412	16.60	≥500	PASS
11G	2437	16.60	≥500	PASS
	2462	16.56	≥500	PASS
	2412	17.88	≥500	PASS
11N20SISO	2437	17.88	≥500	PASS
	2462	17.88	≥500	PASS

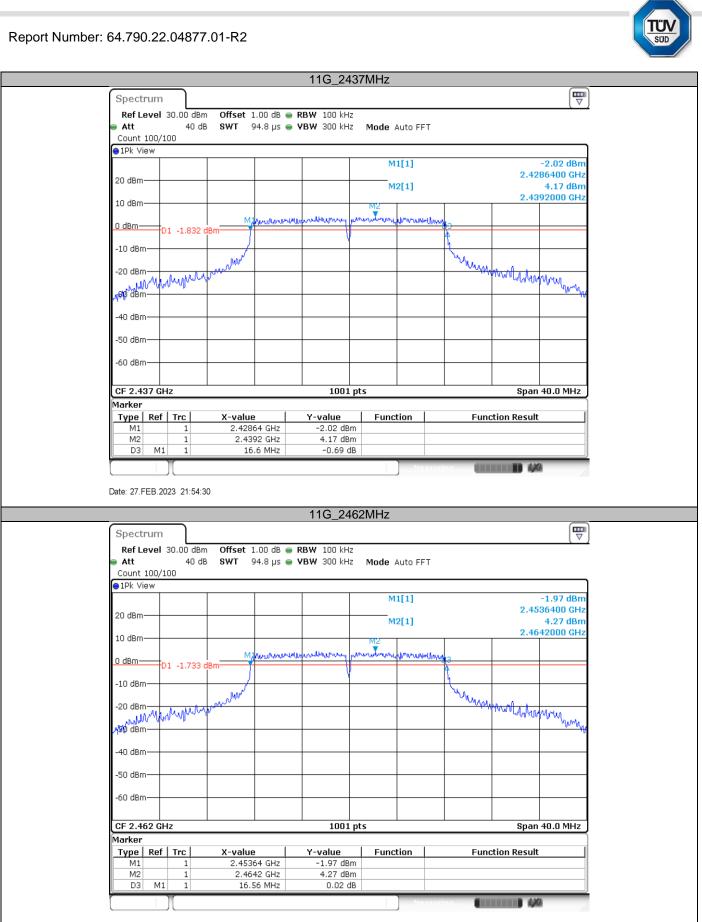


Test Graphs



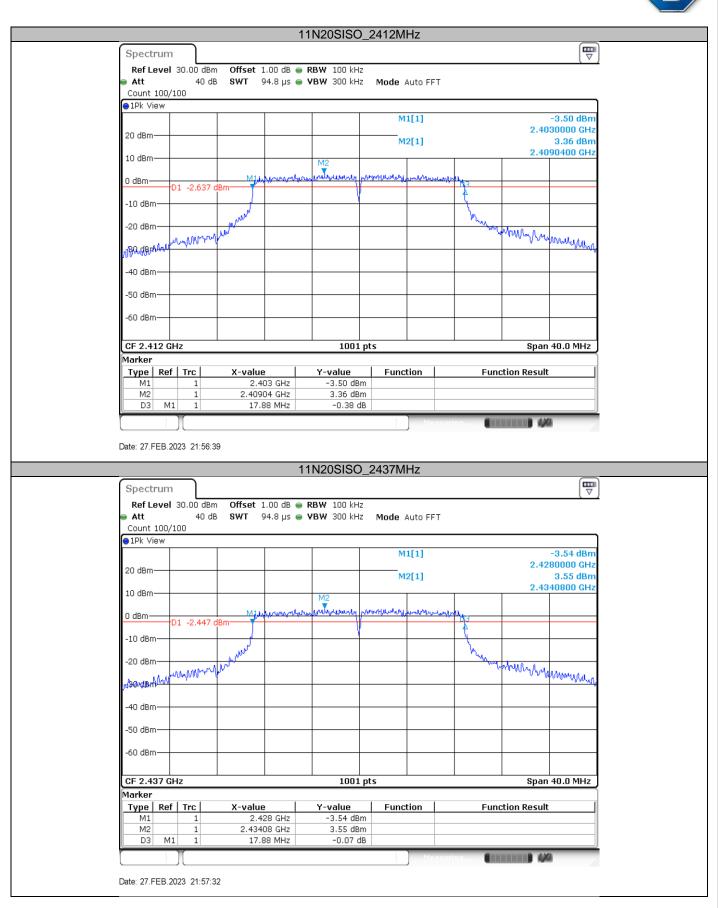


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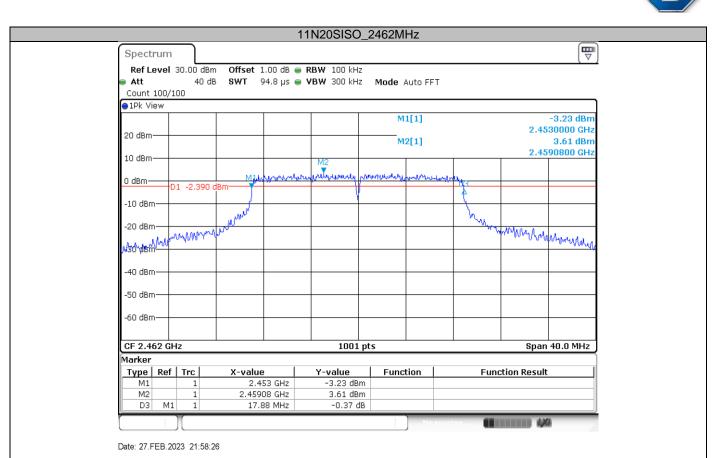


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9.4 99% bandwidth

Test Method

- 1. Connect EUT test port to spectrum analyzer.
- Use the following spectrum analyzer settings: RBW=1% to 5% of the actual occupied, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Use the automatic bandwidth measurement capability of an instrument, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
- 4. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

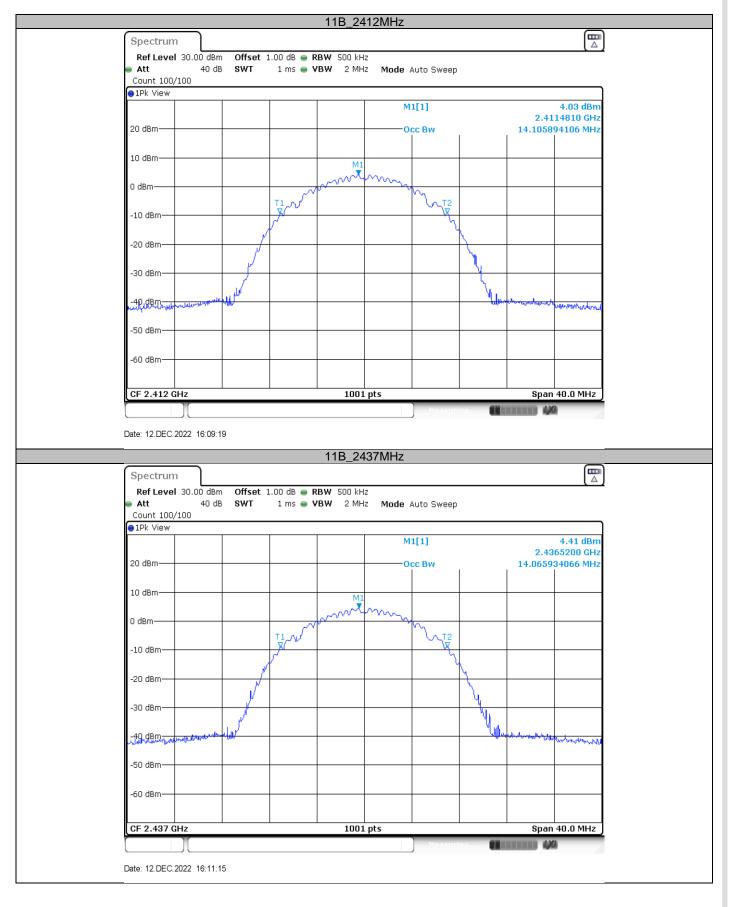
Test result

Test Mode	Channel (MHz)	Result (MHz)	Limit	Verdict
	2412	14.106		PASS
11B	2437	14.066		PASS
	2462	14.066		PASS
11G	2412	18.422		PASS
	2437	18.262		PASS
	2462	18.382		PASS
11N20SISO	2412	19.021		PASS
	2437	19.021		PASS
	2462	19.181		PASS

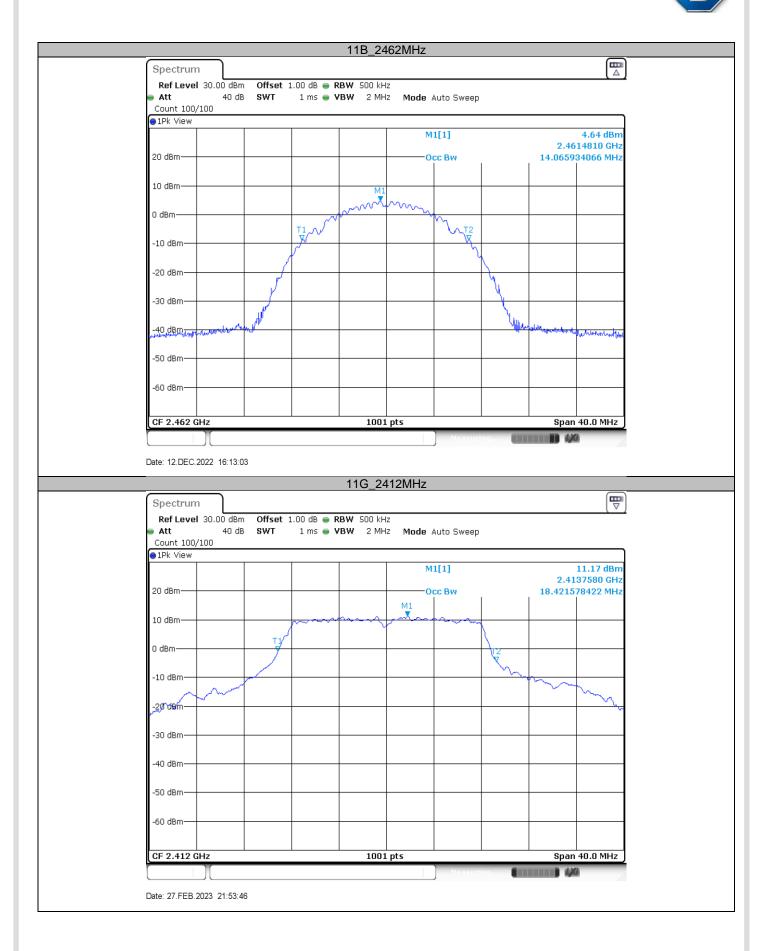




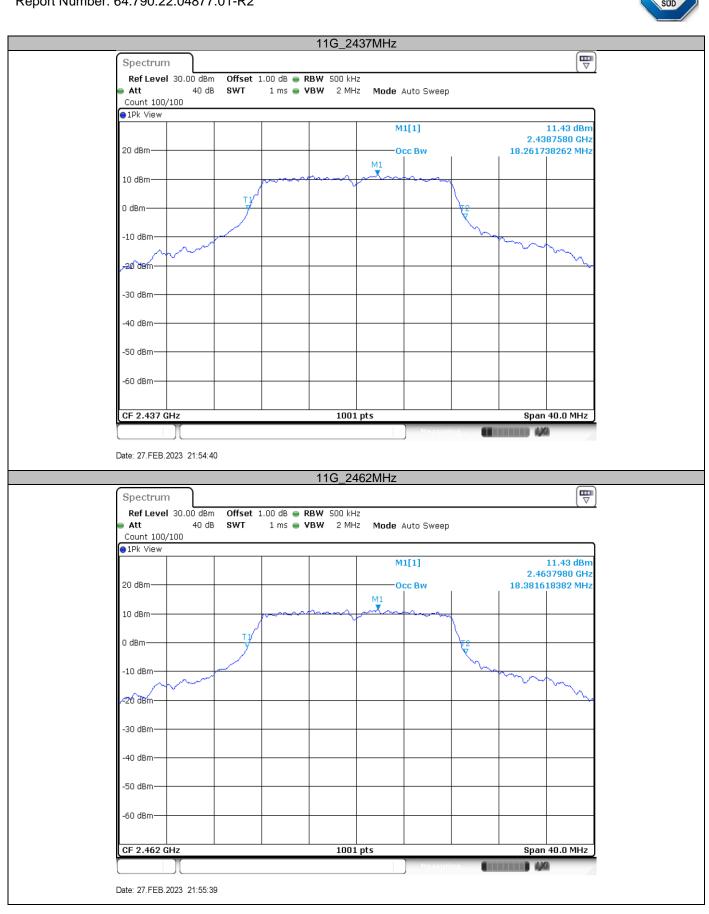
Test Graphs



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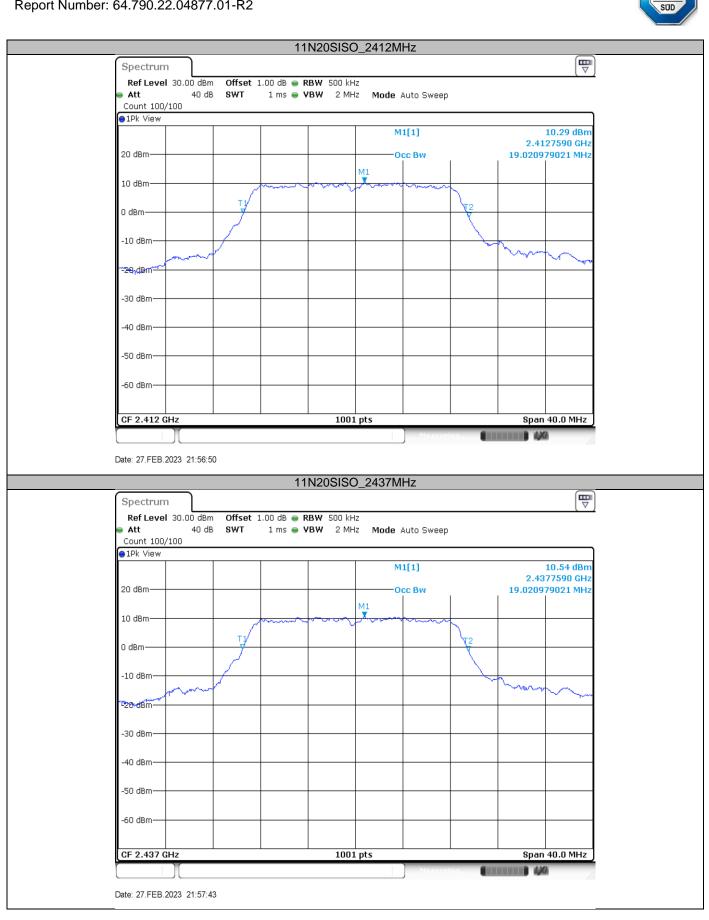
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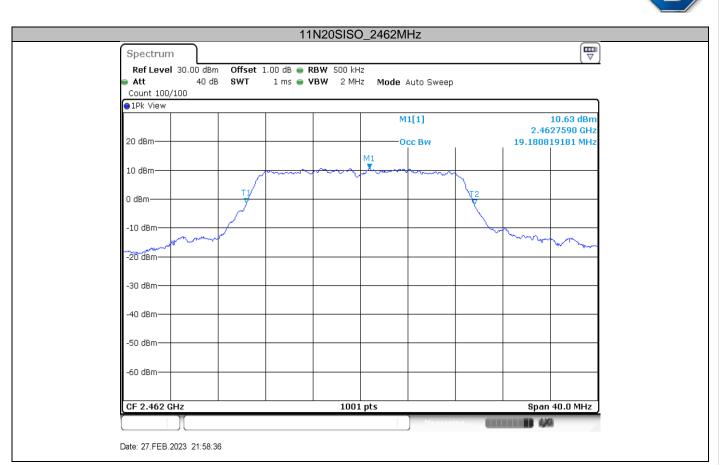
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9.5 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings:
- Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3kHz]

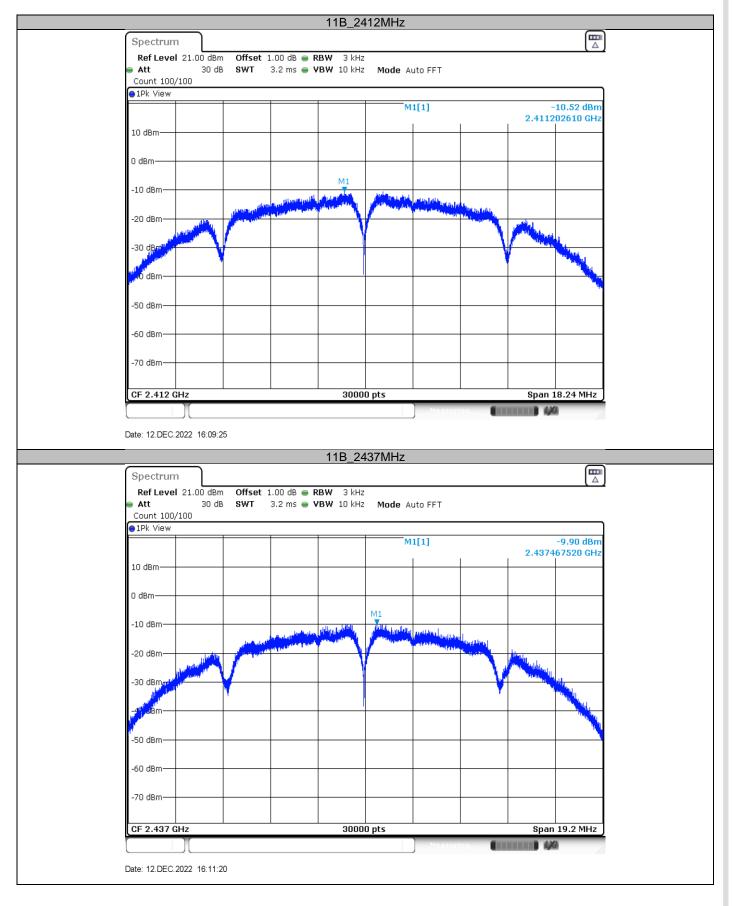
≤8

Test result

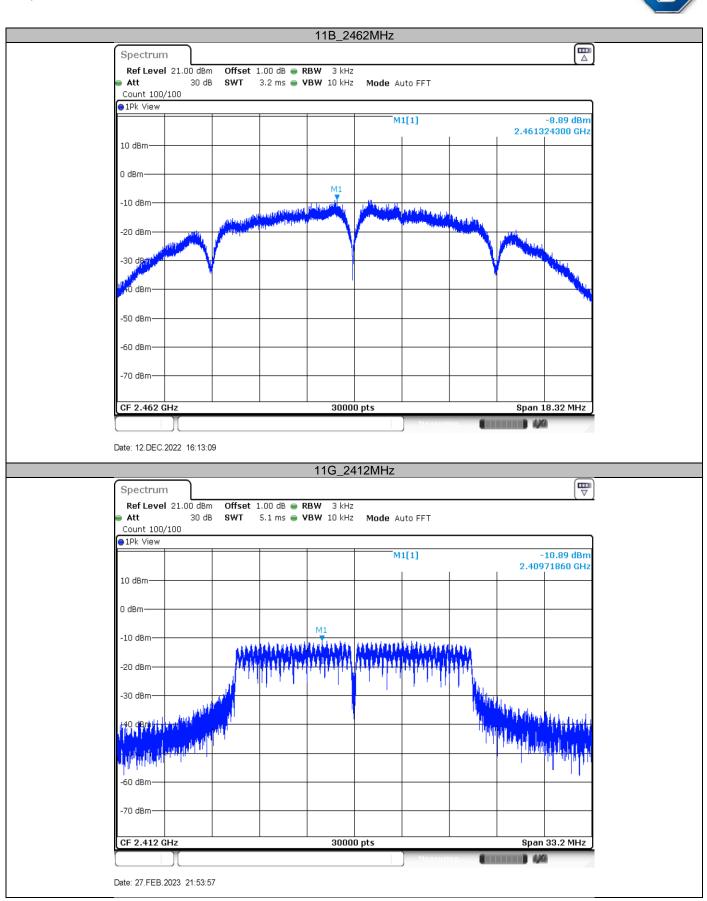
count				
Test Mode	Channel (MHz)	Result (dBm/3KHz)	Limit(dBm/3kHz)	Verdict
	2412	-10.52	8	PASS
11B	2437	-9.90	8	PASS
	2462	-8.89	8	PASS
	2412	-10.89	8	PASS
11G	2437	-10.59	8	PASS
	2462	-10.57	8	PASS
	2412	-11.06	8	PASS
11N20SISO	2437	-10.72	8	PASS
	2462	-10.87	8	PASS



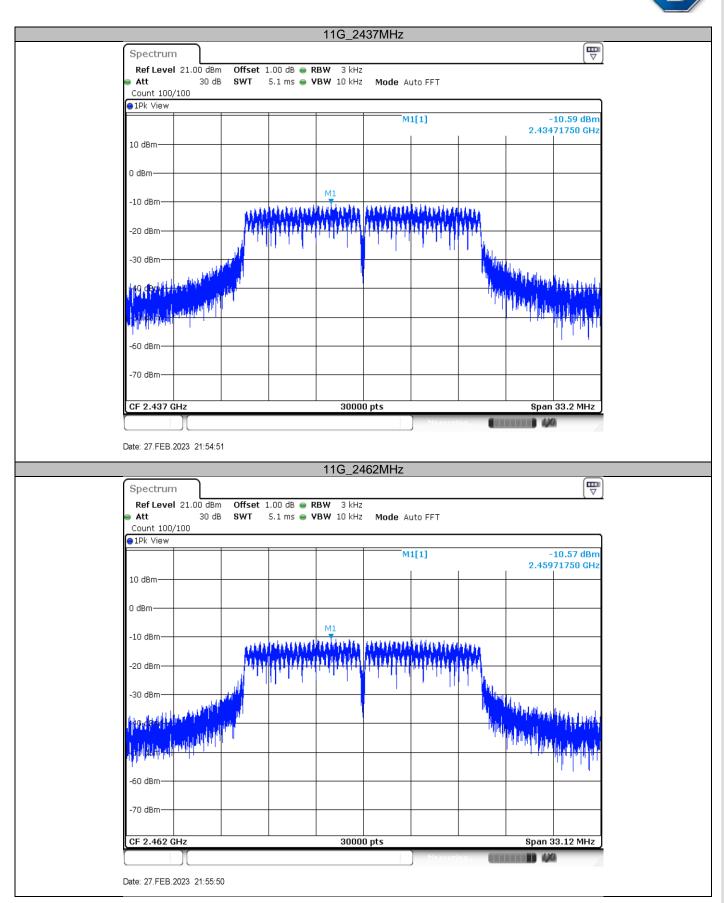
Test Graphs



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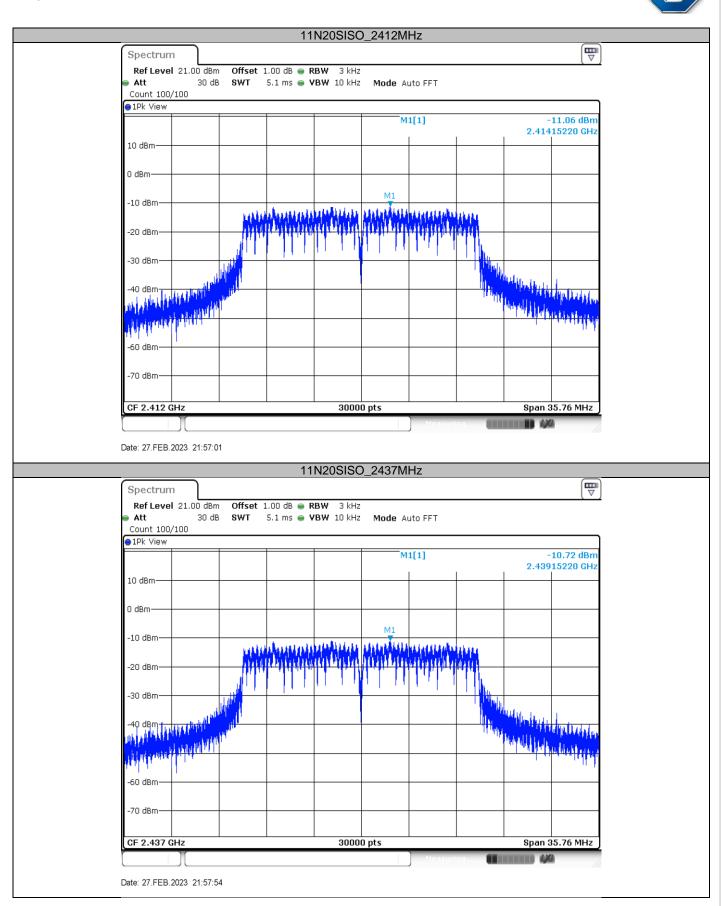


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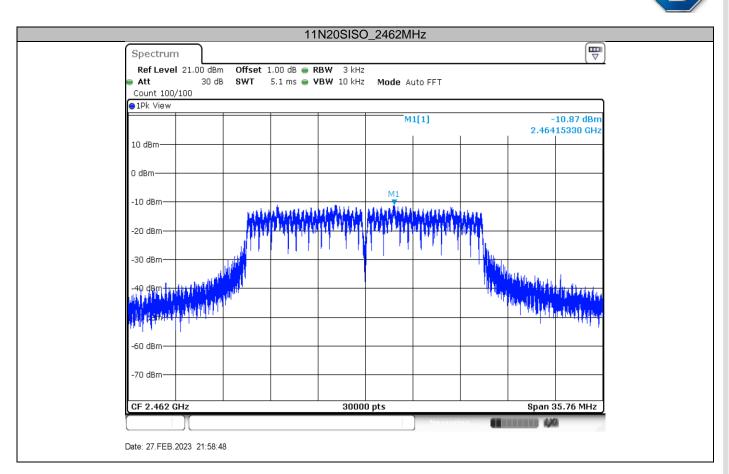


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9.6 Spurious RF conducted emissions

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span. RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 5. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 6. Repeat above procedures until all frequencies measured were complete.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

Frequency Range MHz	Limit (dBc)
30-25000	-20



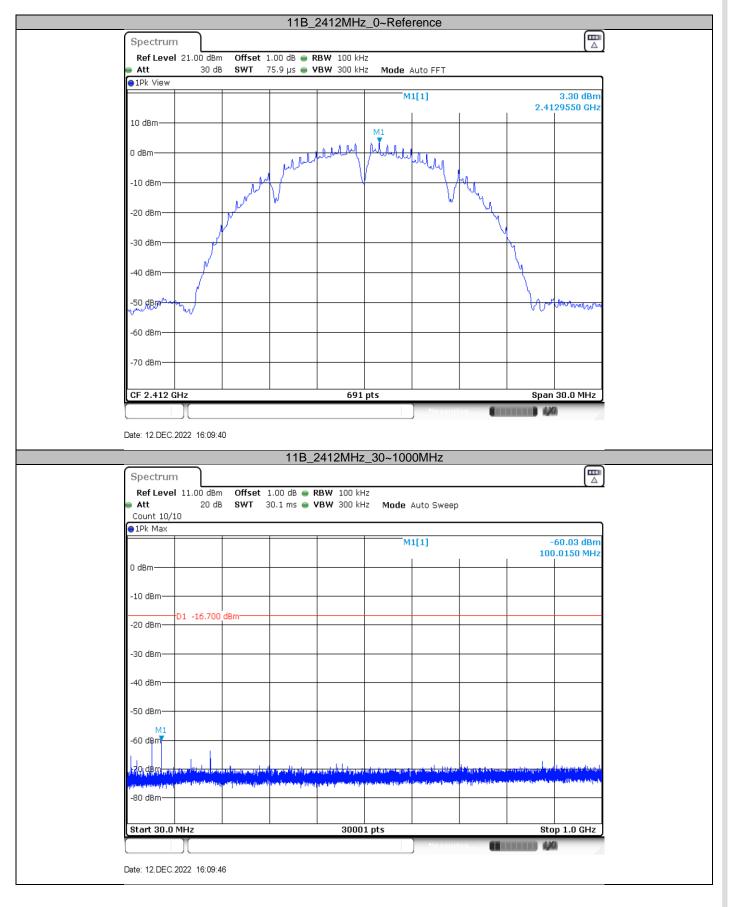
Test Result

Remark: The emissions exceed limit is fundamental signal.

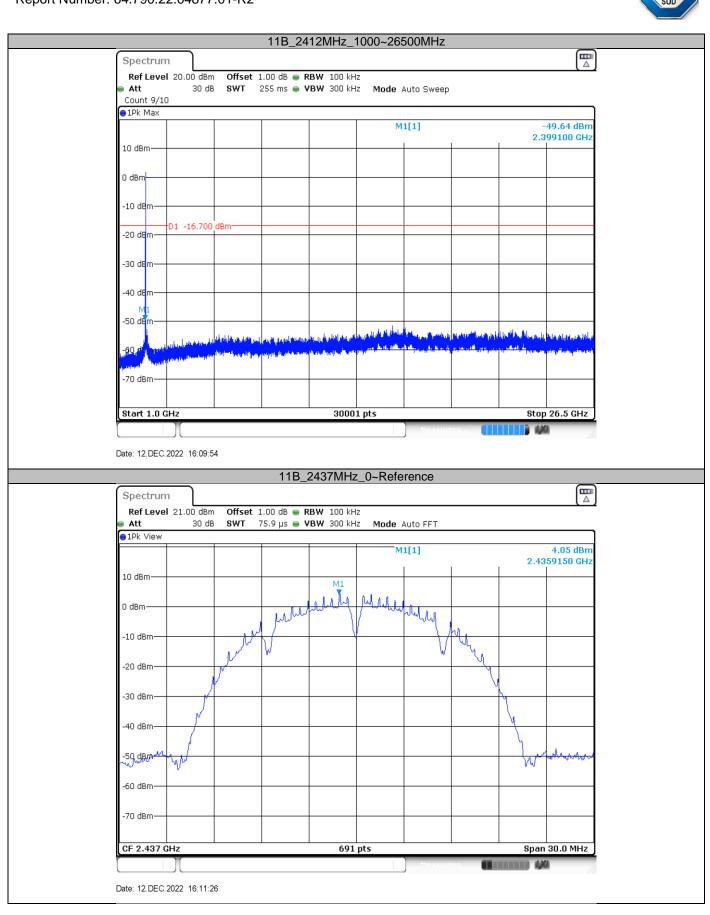
Test Mode	Channel (MHz)	Freq Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
		Reference	3.30	3.30		PASS
	2412	30~1000		-60.03	<=-16.7	PASS
		1000~26500		-49.64	<=-16.7	PASS
		Reference	4.05	4.05		PASS
11B	2437	30~1000		-59.59	<=-15.95	PASS
		1000~26500		-51.44	<=-15.95	PASS
		Reference	4.12	4.12		PASS
	2462	30~1000		-58.72	<=-15.88	PASS
		1000~26500		-51.83	<=-15.88	PASS
	2412	Reference	-1.20	-1.20		PASS
		30~1000		-57.51	<=-21.2	PASS
		1000~26500		-36.68	<=-21.2	PASS
		Reference	-0.15	-0.15		PASS
11G	2437	30~1000		-58.19	<=-20.15	PASS
		1000~26500		-51.64	<=-20.15	PASS
		Reference	0.05	0.05		PASS
	2462	30~1000		-58.11	<=-19.95	PASS
		1000~26500		-51.78	<=-19.95	PASS
	2412	Reference	-0.40	-0.40		PASS
		30~1000		-57.99	<=-20.4	PASS
		1000~26500		-33.75	<=-20.4	PASS
	SISO 2437 30~1	Reference	-0.61	-0.61		PASS
11N20SISO		30~1000		-58.09	<=-20.61	PASS
		1000~26500		-52.44	<=-20.61	PASS
		Reference	-0.04	-0.04		PASS
	2462	30~1000		-58.25	<=-20.04	PASS
		1000~26500		-52.04	<=-20.04	PASS



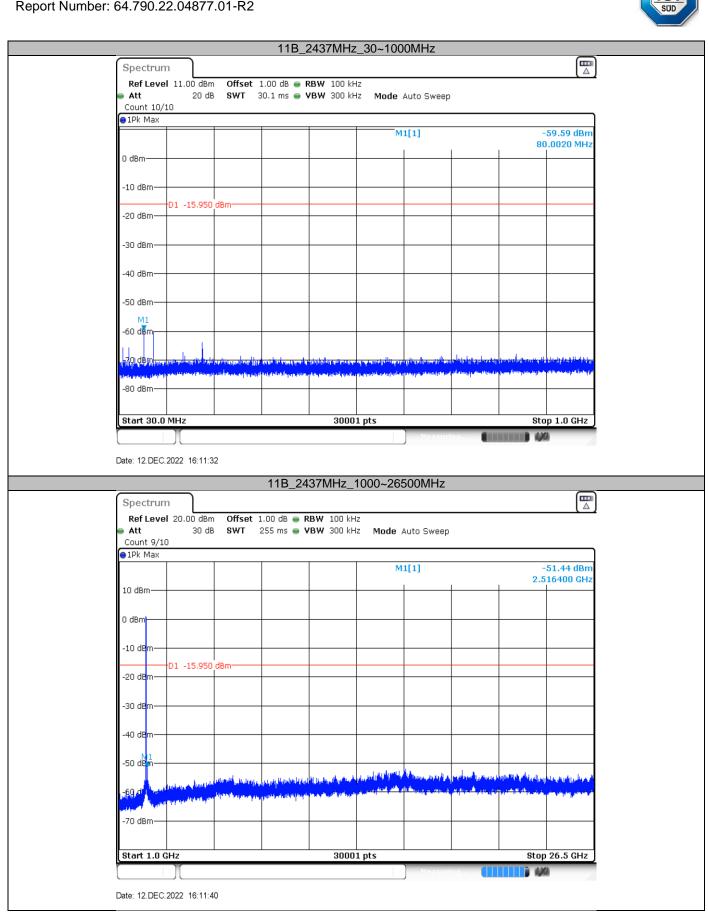
Test Graphs



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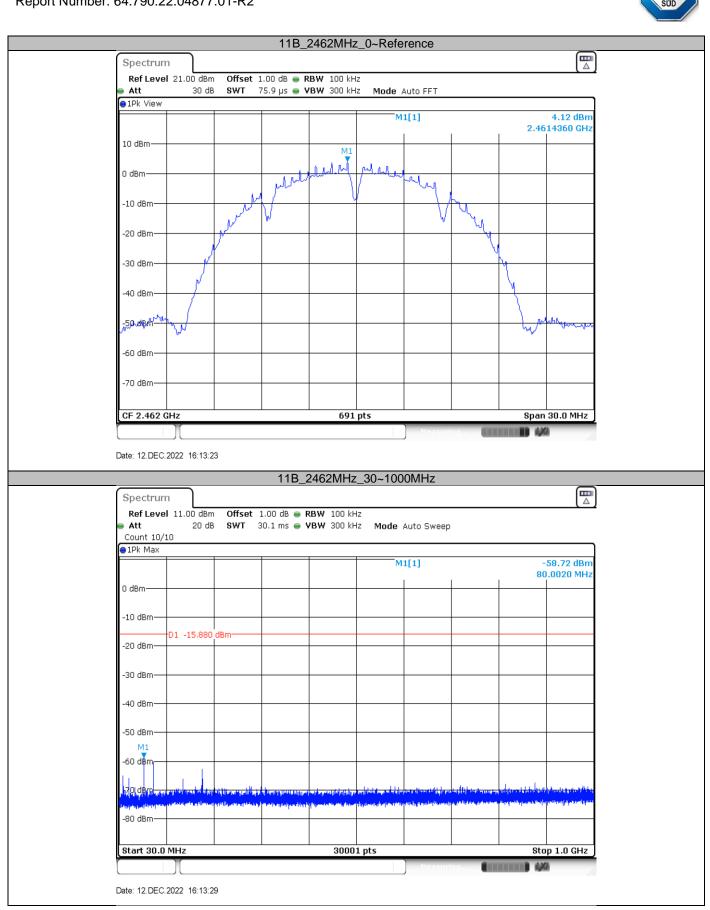
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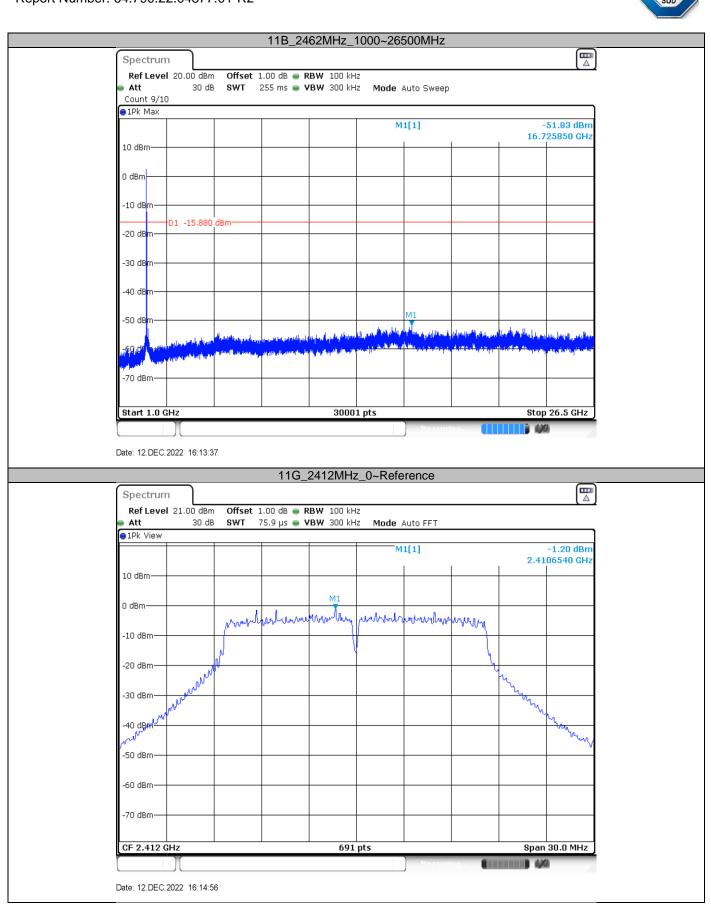
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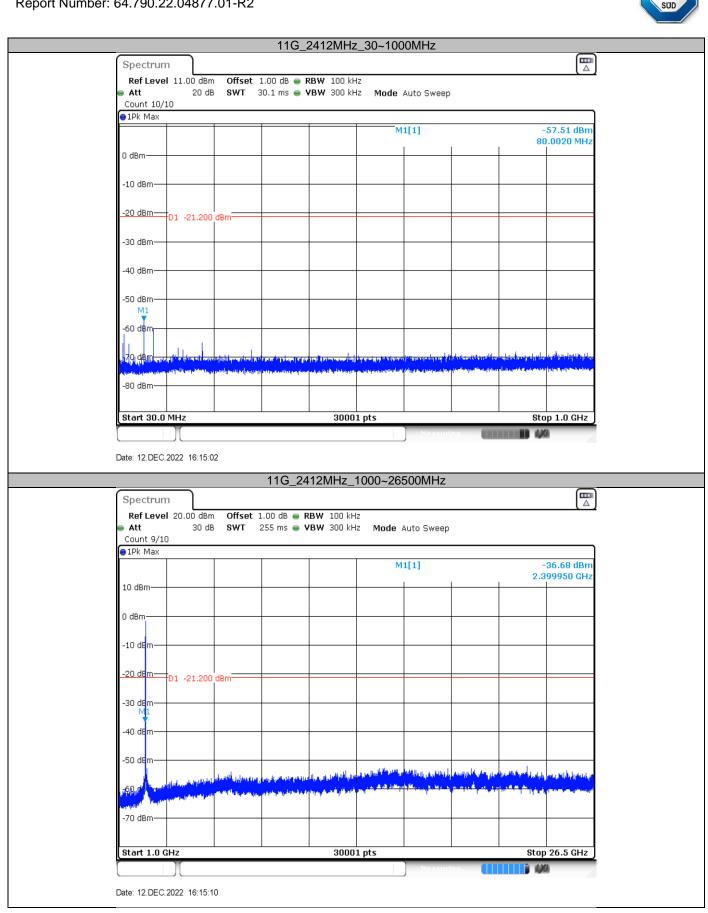
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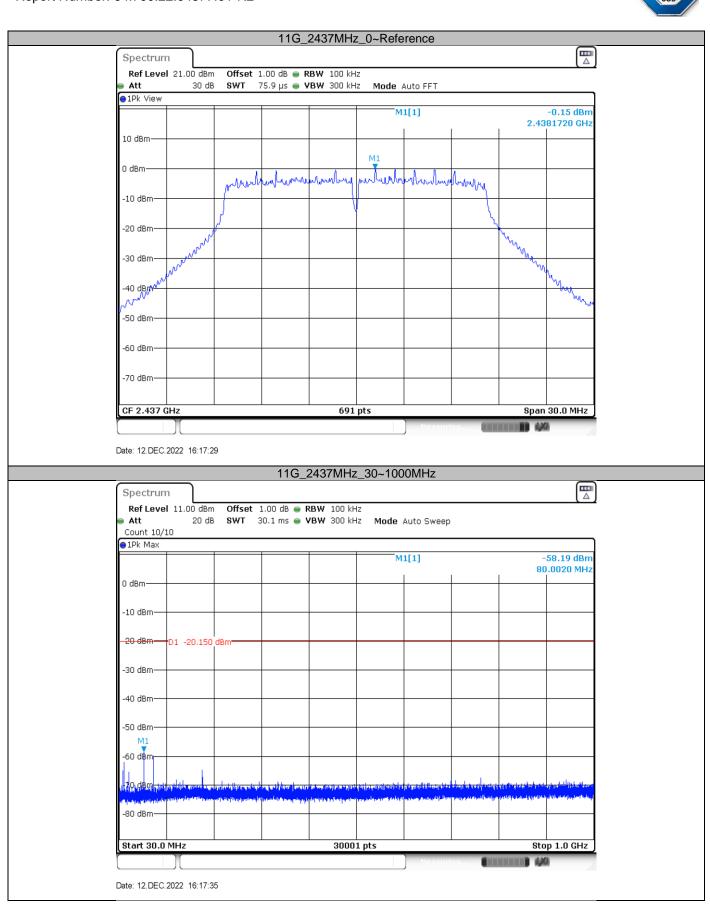
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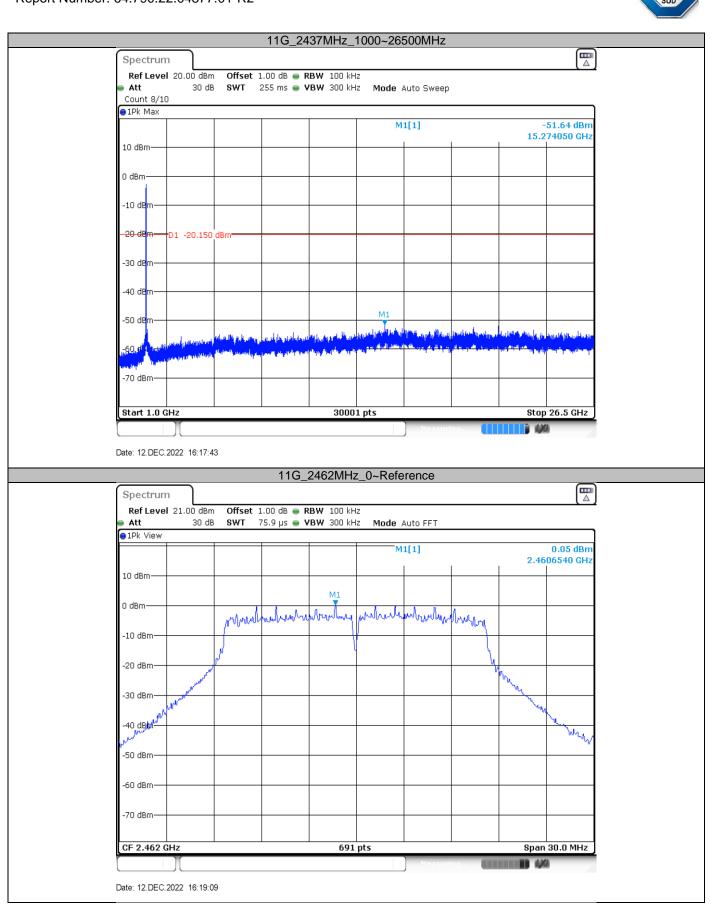


EMC_SZ_FR_23.02 FCC Release 2017-06-20

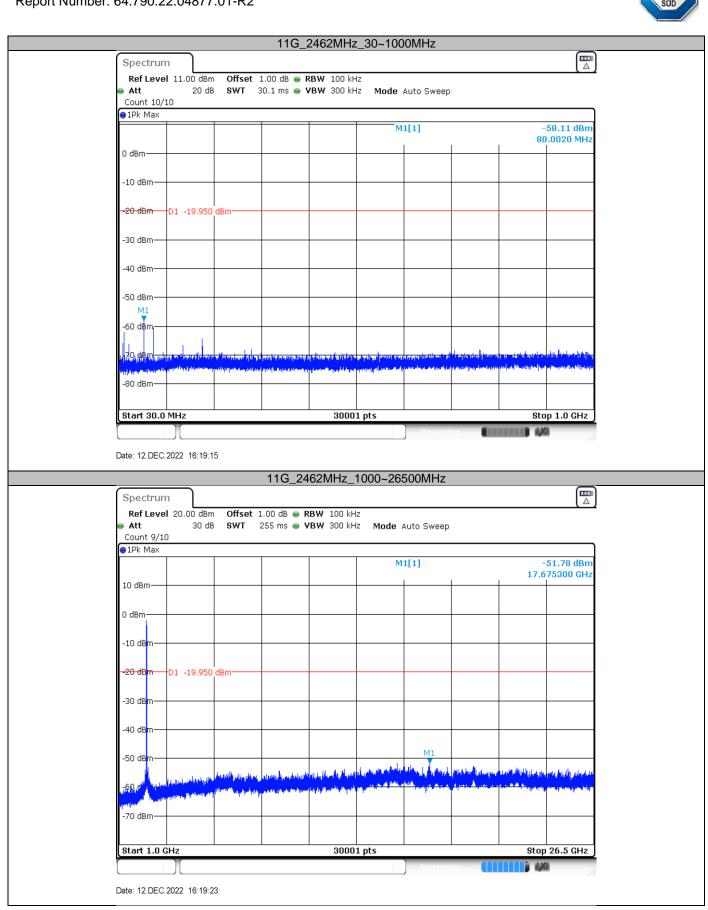
TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299 Page 40 of 62



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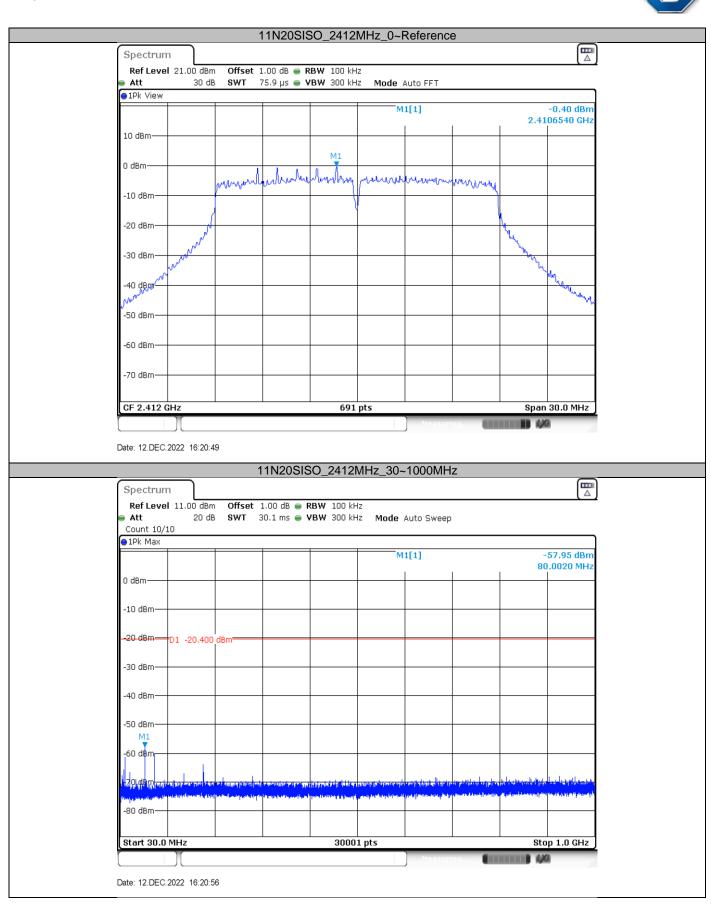
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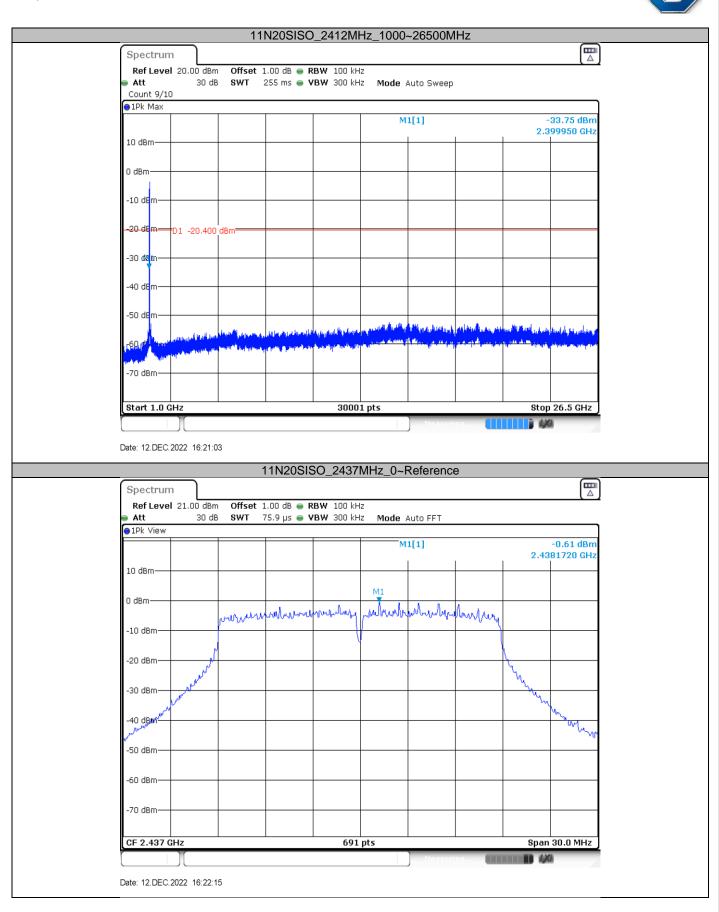
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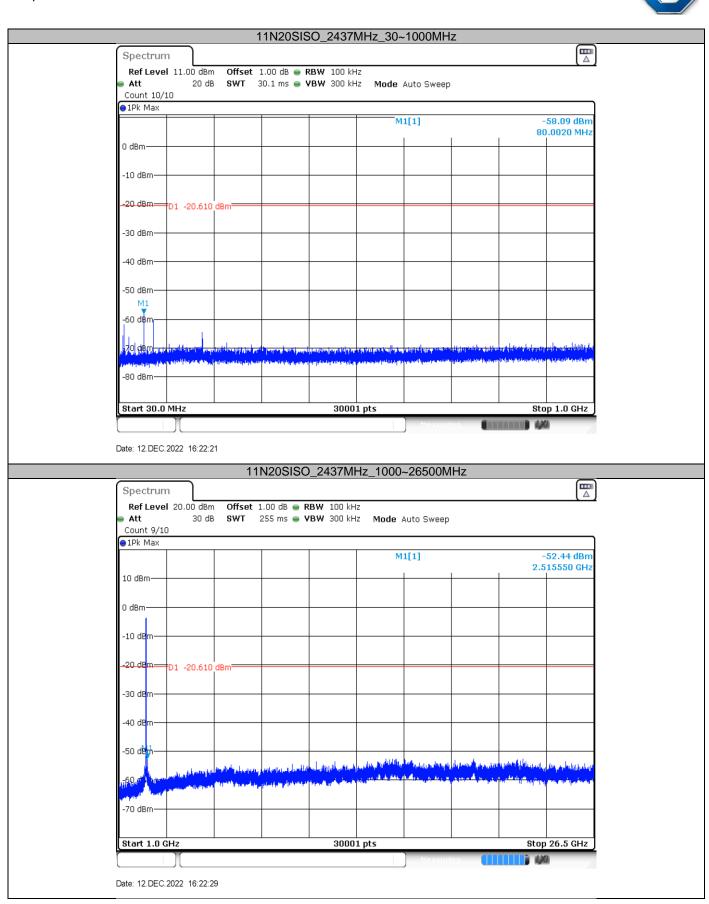


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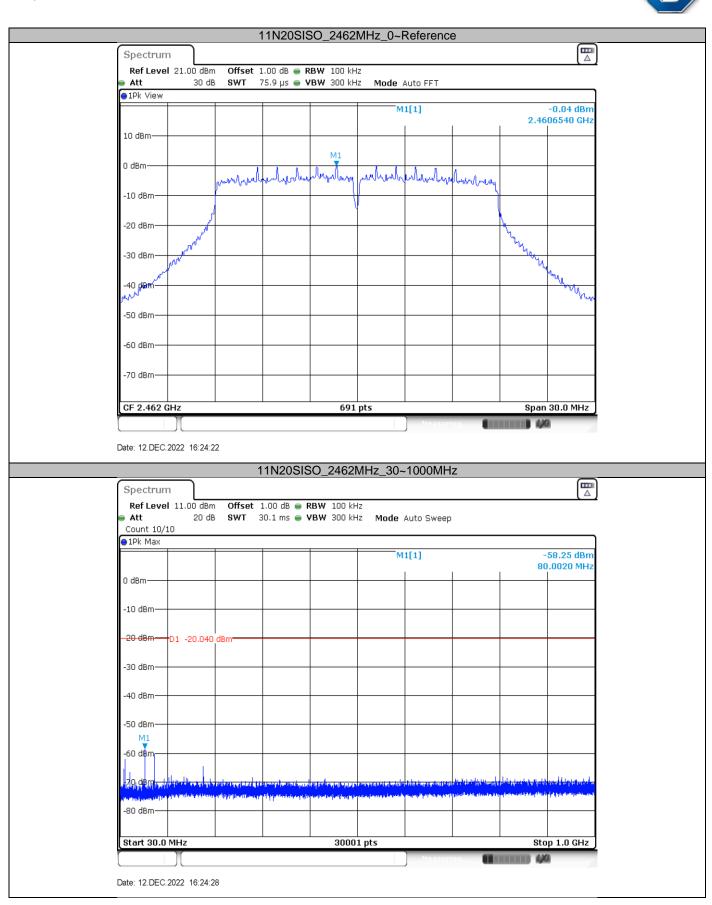
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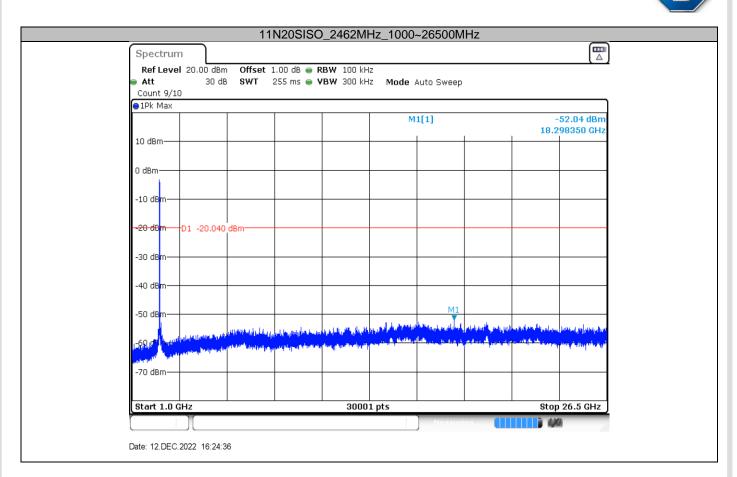
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Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 5. The level displayed must comply with the limit specified in this Section.
- 6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS-247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB.

Frequency Range MHz	Limit (dBc)
30-25000	-20

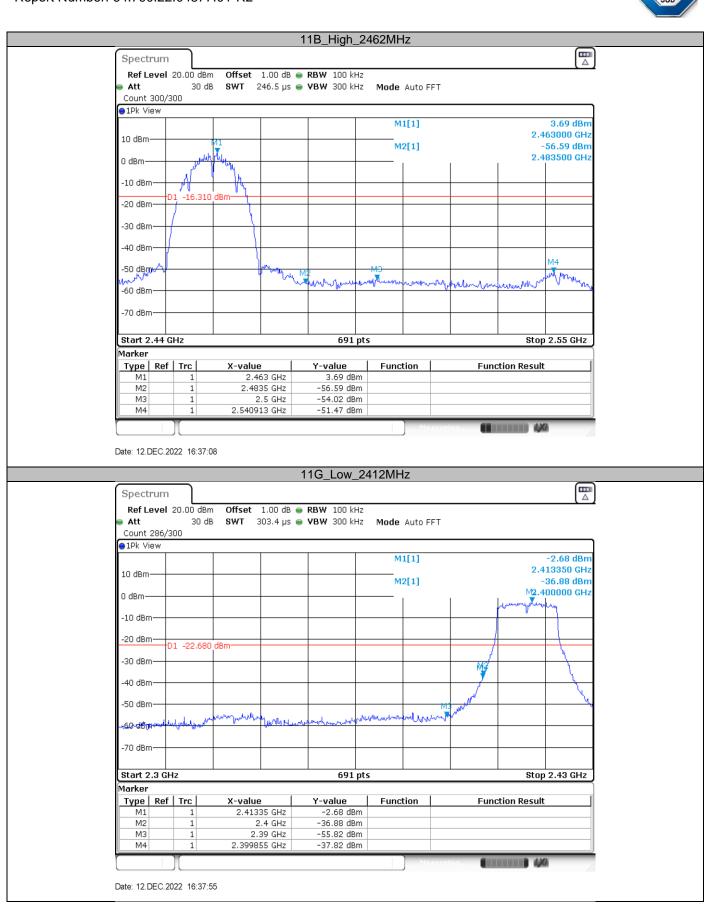


Test result

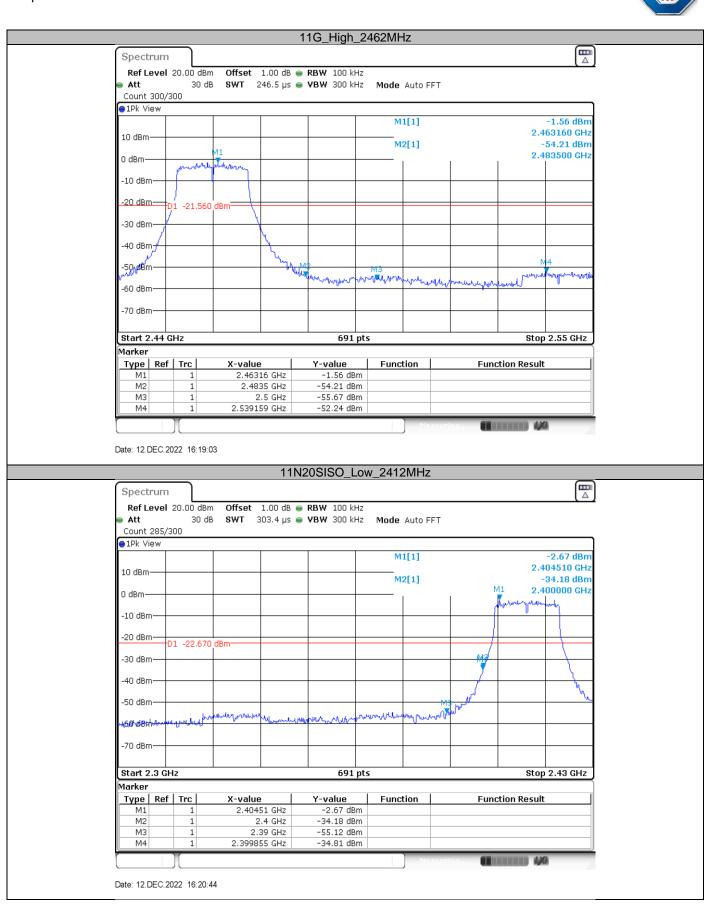
Test Mode	Channel (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
110	2412	2.34	-48.60	<=-17.66	PASS
11B	2462	3.69	-51.47	<=-16.31	PASS
110	2412	-2.68	-37.82	<=-22.68	PASS
11G	2462	-1.56	-52.24	<=-21.56	PASS
11N20SISO	2412	-2.67	-34.81	<=-22.67	PASS
1111203130	2462	-0.10	-51.71	<=-20.1	PASS

Test Graphs

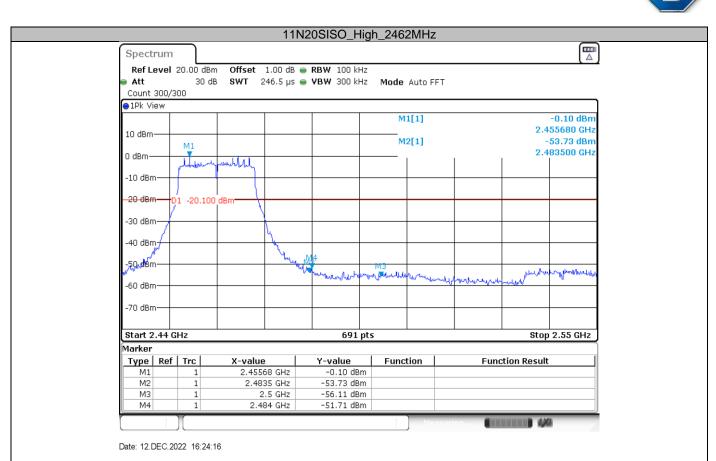
M1[1] 2.34 dBn M2[1] M1 - 48.31 dBn M2[1] M2 - 48.31 dBn M3 dBm M3 dBm			11B_	Low_2412MF	Ηz		
M1[1] 2.34 dBn M2[1] M1 - 48.31 dBn M2[1] M2 - 48.31 dBn M3 dBm M3 dBm	Spectrum)					
M1[1] 2.34 dBn M2[1] M1 - 48.31 dBn M2[1] M2 - 48.31 dBn M3 M3 M2 M3 M2 M3 M3 M3 M3 M3 M3 M3	Ref Level 20.00	DO dBm Offset	1.00 dB 🔵 RBW	100 kHz			(-
2.412970 GH: M2[1] M2[1] M1 -48.31 dBn 400000 GH: M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4					Auto FFT		
2.412970 GH: M2[1] M2[1] M1 -48.31 dBn 400000 GH: M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Count 286/300						
2.412970 GH: M2[1] M2[1] M1 -48.31 dBn 400000 GH: M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	●1Pk View						
M2[1] M1 -48.31 dBn M2[1] M1 -48.31 dBn M2[1] M3 -48.31 dBn M2[1] M3 -48.31 dBn M2[1] M3 -48.31 dBn M2[1] M2 -48.31 dBn M2[1] M3 -48.31 dBn M2[1] M2 -48.31 dBn M2[1] M2 -48.31 dBn M2 -48.31 dBn M3 -48.31 dBn M2 -48.31 dBn M3 -48.31 dBn M3 -48.31 dBn M3 -48.31 dBn				N	11[1]		
	10 dBm				19[1]		
691 pts Stop 2.43 GHz Image: Stop 2.43 GHz Stop 2.43 GHz	0 dBm				12[1]	and the	400000 GHz
691 pts Stop 2.43 GHz	o ubiii						Ψ.
691 pts Stop 2.43 GHz	-10 dBm		+				-M
691 pts Stop 2.43 GHz	-20 dBm D1 -17	17.660 dBm	<u> </u>			r"	"
691 pts Stop 2.43 GHz	-20 UBIII					1	1 L
691 pts Stop 2.43 GHz	-30 dBm		+				
691 pts Stop 2.43 GHz	10.10-						
691 pts Stop 2.43 GHz ULE Function Function Result 34 dBm 31 dBm 33 dBm	-40 dBm					N442	
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691 pts Stop 2.43 GHz ULE Function Function Result 34 dBm 31 dBm 33 dBm	and marked and	a manual	and the weather the second	man unphurgen	we have	and a	~ W
lue Function Function Result 34 dBm 31 dBm 33 dBm	~60-dBth ~~~~~~	1000 0 V					
lue Function Function Result 34 dBm 31 dBm 33 dBm	-70 dBm		+				
lue Function Function Result 34 dBm 31 dBm 33 dBm							
34 dBm 31 dBm 33 dBm	Start 2.3 GHz	1	· · ·	691 pts		Sto	p 2.43 GHz
34 dBm 31 dBm 33 dBm	Marker						
31 dBm 33 dBm	Type Ref Trc				ction	Function Resul	lt
33 dBm							
				.83 dBm			
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Measuring					Measur	ing	XI
							///
	Date: 12.DEC.2022 1						



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9.8 Spurious radiated emissions for transmitter

Test Method

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1MHz.

b) VBW $\ [3 \times RBW]$.

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows: 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction



factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels. 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3) and RSS 247 section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) and RSS-Gen section 8.9, must also comply with the radiated emission limits specified in § 15.209(a) and RSS-Gen section 8.10.

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBµV/m	
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



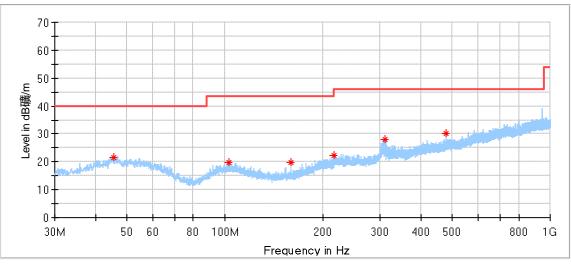
Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

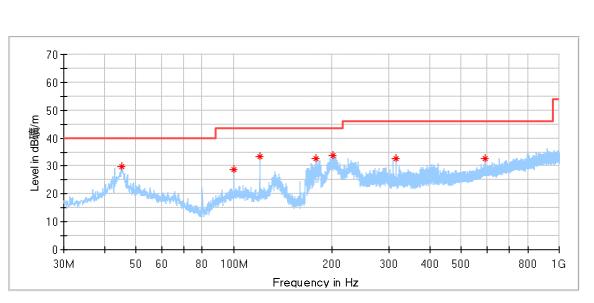
The only worse case (802.11n20) test result is listed in the report.

Transmitting spurious emission test result as below:

Below 1G:



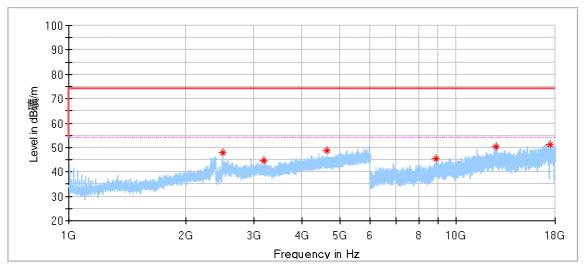
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.627778	21.69	40.00	18.31	200.0	Н	341.0	20.82
103.235000	19.63	43.50	23.87	100.0	Н	337.0	18.50
159.980000	19.75	43.50	23.75	200.0	Н	179.0	15.70
216.725000	22.24	46.00	23.77	200.0	Н	44.0	18.43
311.731111	28.07	46.00	17.93	100.0	Н	169.0	21.21
479.972222	30.26	46.00	15.74	200.0	Н	8.0	24.99



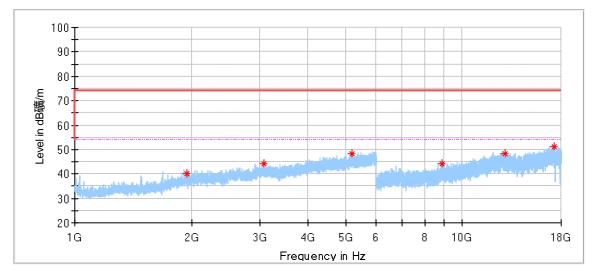
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.142778	29.76	40.00	10.24	100.0	V	281.0	20.70
100.001667	28.88	43.50	14.62	100.0	V	260.0	18.31
119.940556	33.22	43.50	10.28	100.0	V	19.0	16.51
178.841111	32.56	43.50	10.94	100.0	V	166.0	16.55
202.175000	33.82	43.50	9.68	100.0	V	29.0	18.28
315.018333	32.77	46.00	13.23	100.0	V	166.0	21.28
592.600000	32.62	46.00	13.38	100.0	V	313.0	27.42



Low channel 2412MHz



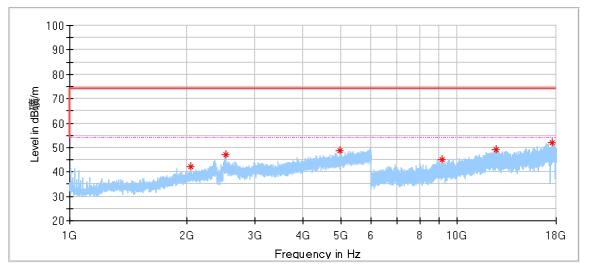
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2499.500000	48.06	74.00	25.94	150.0	Н	356.0	-2.19
3198.000000	44.57	74.00	29.43	150.0	Н	156.0	-0.69
4643.000000	48.59	74.00	25.41	150.0	Н	328.0	3.44
8883.500000	45.34	74.00	28.66	150.0	Н	352.0	13.19
12672.000000	50.16	74.00	23.84	150.0	Н	224.0	18.31
17468.500000	51.25	74.00	22.75	150.0	Н	352.0	23.69



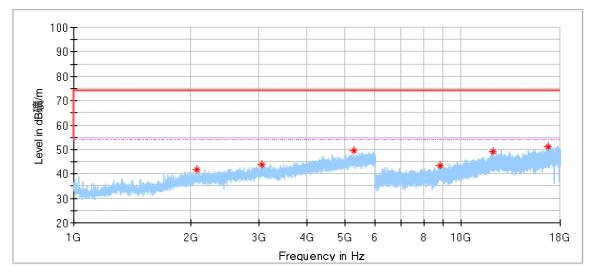
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1944.500000	40.02	74.00	33.98	150.0	V	31.0	-4.74
3070.000000	44.17	74.00	29.83	150.0	V	356.0	-0.58
5185.000000	48.19	74.00	25.81	150.0	٧	4.0	5.35
8850.000000	44.34	74.00	29.66	150.0	٧	4.0	13.21
12916.500000	48.25	74.00	25.75	150.0	V	29.0	17.57
17249.500000	51.04	74.00	22.96	150.0	V	334.0	24.13



Middle channel 2437MHz



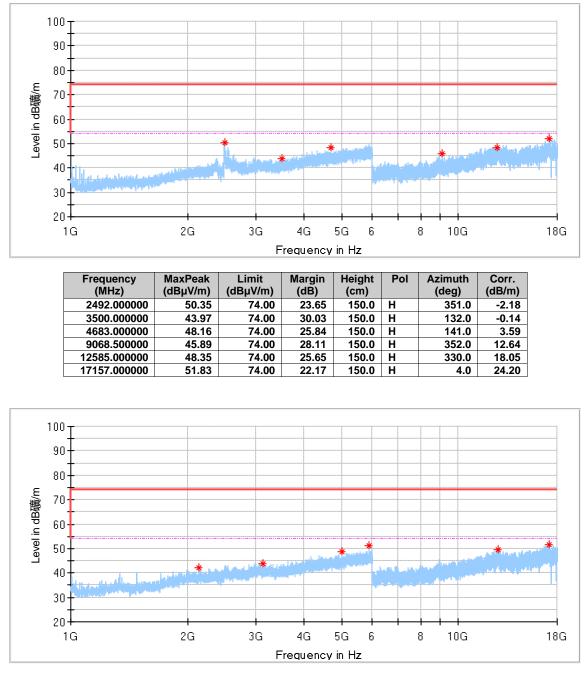
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2056.500000	42.32	74.00	31.68	150.0	Н	114.0	-3.87
2530.000000	47.07	74.00	26.93	150.0	Н	351.0	-2.21
4995.500000	48.59	74.00	25.41	150.0	Н	0.0	4.50
9133.000000	45.15	74.00	28.85	150.0	Н	201.0	12.57
12609.500000	49.26	74.00	24.74	150.0	Н	201.0	18.30
17626.000000	52.16	74.00	21.84	150.0	Н	117.0	23.87



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2073.000000	41.93	74.00	32.07	150.0	V	10.0	-3.93
3060.000000	43.64	74.00	30.36	150.0	V	221.0	-0.47
5296.000000	49.36	74.00	24.64	150.0	٧	150.0	5.27
8814.000000	43.48	74.00	30.52	150.0	٧	29.0	12.99
12107.000000	49.18	74.00	24.82	150.0	V	58.0	17.15
16764.500000	51.27	74.00	22.73	150.0	V	29.0	23.66



High channel 2462MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2141.500000	42.08	74.00	31.92	150.0	V	264.0	-3.86
3127.500000	43.62	74.00	30.38	150.0	V	343.0	-0.76
5022.000000	48.67	74.00	25.33	150.0	V	50.0	4.54
5873.000000	51.20	74.00	22.80	150.0	V	157.0	6.31
12645.000000	49.61	74.00	24.39	150.0	V	330.0	18.66
17181.500000	51.42	74.00	22.58	150.0	V	216.0	24.24

Remark:

- (1) Data of measurement within frequency ranges 9kHz-30MHz and 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report,
- (2) Level= Reading Level + Correction Factor
- (3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)

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10 Test Equipment List

Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval	Cal. due
					(year)	date
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-19-002	102590	1	2023-5-27
LISN	Rohde & Schwarz	ENV216	68-4-87-19-001	102472	1	2023-5-27
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2023-5-27
Test software	Rohde & Schwarz	EMC32	68-4-90-19- 005-A01	Version 10.35.02	N/A	N/A
Shielding Room	TDK	CSR #2	68-4-90-19-005		3	2025-10-15

Radiated Emission Test, SAC-3 #2

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2023-5-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2024-3-5
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	1	2023-6-19
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2023-8-17
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2023-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2023-5-28
Sideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	68-4-80-14-008	12827	1	2023-7-12
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2023-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006		2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006- A01	Version 10.35.02	N/A	N/A

RF Conducted Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2023-5-27



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Conducted Emission in new shielding room (68-4-90-19-005) 150kHz-30MHz (for test using AMN ENV216)	3.33dB			
Uncertainty for Radiated Emission in 3m chamber (68- 4-90-14-001) 9kHz-30MHz	4.70dB			
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.59dB; Vertical: 4.75dB;			
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 5.08dB; Vertical: 5.09dB;			
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) above 18000MHz	Horizontal: 3.14dB; Vertical: 3.12dB			
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁸ or 1%			

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---